

User Manual

1) Running the program:

Go to the bin folder and compile using following commands:

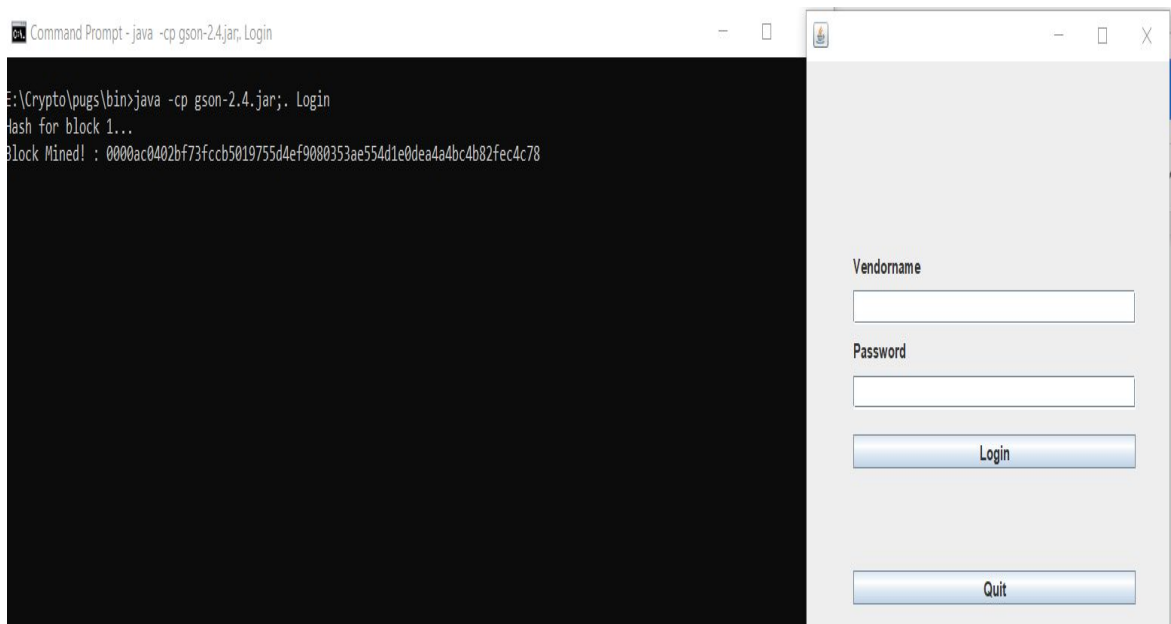
```
Javac -cp gson-2.4.jar; *.java
```

And run using:

```
Java -cp gson-2.4.jar; Login
```

(For linux machine replace “;” with “:”)

We will then get the GUI Login Page along with the hash of the Genesis block.



2) Logging In:

Log in using the User Id and Password given in “dbs.txt” of any of the three users.

3) Adding a Drug:

For each user we have currently added 3 Drugs along with their Serial No. Write the drug’s name and serial no. and it will be added as a block in the Blockchain and hash will be displayed after verification of transaction.

```
lhs: 2 rhs:2
***Mining Block***
Block Mined! : 0000543da926edcbfa378c4b33d65215f8957b500539e13ee841d58a64e9c156
```

4) Viewing transaction:

Click on View Transaction to display all the transaction along with hashes in the console for the current user.

```
***VENDOR DRUG TRANSACTION***
Current User:- ba7816bf8f01cfea414140de5dae2223b00361a396177a9cb410ff61f20015ad
[
  {
    "hash": "0000ac0402bf73fccb5019755d4ef9080353ae554d1e0dea4a4bc4b82fec4c78",
    "previousHash": "0",
    "nonce": 19708,
    "timeStamp": 1587903610133,
    "drugName": "Dummy User"
  },
  {
    "hash": "0000543da926edcbfa378c4b33d65215f8957b500539e13ee841d58a64e9c156",
    "previousHash": "0000ac0402bf73fccb5019755d4ef9080353ae554d1e0dea4a4bc4b82fec4c78",
    "nonce": 4409,
    "timeStamp": 1587903767671,
    "drugName": "Paracetamol"
  }
]
```

5) Integrity Of Blockchain:

Whenever a user logs in integrity of all blocks are verified and integrity of blockchain is shown in the output.

```
E:\Crypto\pugs\bin>java -cp gson-2.4.jar;. Login
Hash for block 1...
Block Mined! : 0000ac0402bf73fccb5019755d4ef9080353ae554d1e0dea4a4bc4b82fec4c78
Current User:- ba7816bf8f01cfea414140de5dae2223b00361a396177a9cb410ff61f20015ad

Blockchain is Valid: true
```